

# PART 34 AMDT

WE CLAIM AS OUR INVENTION

11

## Claims

1

1. Pacer housing (60) comprising a connector means adapted to receive a contact plug (110) with contact surfaces (111, 118) on the proximal end of a lead (115) with an electrode located on the distal end of said lead, said housing preferably being made of metal, said connector means comprising a tubular member (20) having two ends (22, 23), said tubular member (20) being located inside said housing (60), a first end (23) of said tubular member (20) being welded or bonded to a first opening (62) in a wall of said housing (60), **characterized** in that said tubular member (20) comprises a tube (21) made of a metal being weldable or bondable to said housing (60), said tube (21) being structurally intact along its entire length, the second end (22) of said tube (21) being welded or bonded to a second opening (61) in said housing (60), all interior means (27, 28, 57, 58) in said tube contact the contact surfaces (111, 118) on said plug and are thus located within the enclosure formed by said tube (21) of metal, said metal tube (21) being provided with one or several lateral contact openings (24, 25) and with contact surfaces (27, 28) for establishing the contact to the interior of said housing, said contact surfaces (27, 28) being accessible through said openings (24, 25), said contact surfaces being electrically connected to contact means (57, 58) for contacting the contact surfaces (111, 118) on said plug (110).
2. Pacer housing according to claim 1, **characterized** in that said opening(s) (24, 25) are sealed by one or several insulating ceramic plugs (26) and said contacty surfaces (27, 28), said ceramic plugs being soldered or bonded to said tube, said plugs holding said contact surfaces (27, 28) for contacting the interior of said housing.
3. Pacer housing according to claim 2, **characterized** in that said contact surfaces comprise metal rings (27, 28) that are

5 molded or bonded into the ceramic plugs (26), the outside of said ceramic plugs (26) being provided with openings (32, 33) coinciding with said lateral contact openings (24, 25) in said tube, thus giving access to said metal rings from the outside of said tube.

4. Pacer housing according to claim 3, **characterized** in that a central part of said metal rings (27, 28) is free from ceramic and provides a circumferential groove (30, 31) at 10 the inside of said rings (27, 28) giving access to said metal rings from the inside of said tube.

5. Pacer housing according to any one of the preceding 15 claims, **characterized** in that lead locking means (40) are located in said second end (22) of said tube (21), and means (48) for operating said lead locking means (40) are accessible from said second end (22) of said tube (21).

6. Pacer housing according to claim 5, **characterized** in that 20 said lead locking means (40) are removable wholly or partly to give access to said contact plug (110).

AMENDED SHEET